

RAW SEQUENCE LISTING

DATE: 05/22/2001

PATENT APPLICATION: US/09/836,392

TIME: 17:33:29

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2 <110> APPLICANT: Ruben et al.

4 <120> TITLE OF INVENTION: Protein Tyrosine Kinase Receptor Polynucleotides, Polypeptides, and Antibodies

5 Antibodies

7 <130> FILE REFERENCE: PT020P1

C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/836,392

10 <141> CURRENT FILING DATE: 2001-04-18

12 <150> PRIOR APPLICATION NUMBER: PCT/US00/28066

13 <151> PRIOR FILING DATE: 2000-10-11

15 <150> PRIOR APPLICATION NUMBER: 60/159,542

16 <151> PRIOR FILING DATE: 1999-10-15

18 <150> PRIOR APPLICATION NUMBER: 60/165,914

19 <151> PRIOR FILING DATE: 1999-11-17

21 <150> PRIOR APPLICATION NUMBER: 60/189,027

22 <151> PRIOR FILING DATE: 2000-03-14

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26 <170> SOFTWARE: PatentIn Ver. 2.0

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32 <213> ORGANISM: Homo sapiens

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264 atatgtggca agaaataata tattgaattt aaaacgatac tgcatagaac gtgtgttcag 1020
265 gccgcgcaag ttagatcgat ttcatcccaa agaacttctg gagtgtgcat ttgatattgt 1080
266 cacttctacc accaacagct ttctgcccac tgctgaaatt atctacacta tctatgaaat 1140
267 catccaagag tttccagcac ttcaggaaag aaattacagt atttatttga accataccat 1200
268 gttattgaaa gcaatactct tacactgtgg gatcccagaa gataaactca gtcaagtcta 1260
269 cattattctg tatgatgtg tgacagagaa gctgacgagg agagaagtgg aagctaaatt 1320
270 ttgtaatctg tctttgtctt ctaatagtct gtgtcgactc tacaagttta ttgaacagaa 1380
271 gggagatttg caagatctta tgccaacaat aaattcatta ataaaacaga aaacaggtat 1440

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/836,392

DATE: 05/22/2001

TIME: 17:33:31

Input Set : A:\Pto.amc

Output Set: C:\CRF3\05222001\I836392.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/836,392

DATE: 05/10/2001
 TIME: 08:43:24

**Does Not Comply
 Corrected Diskette Needed**

Input Set : A:\ES.txt
 Output Set: N:\CRF3\05102001\I836392.raw

2 <110> APPLICANT: Ruben et al.
 4 <120> TITLE OF INVENTION: Protein Tyrosine Kinase Receptor Polynucleotides, Polypeptides, and
 5 Antibodies
 7 <130> FILE REFERENCE: PT020P1
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/836,392
 10 <141> CURRENT FILING DATE: 2001-04-18
 12 <150> PRIOR APPLICATION NUMBER: PCT/US00/28066
 13 <151> PRIOR FILING DATE: 2000-10-11
 15 <150> PRIOR APPLICATION NUMBER: 60/159,542
 16 <151> PRIOR FILING DATE: 1999-10-15
 18 <150> PRIOR APPLICATION NUMBER: 60/165,914
 19 <151> PRIOR FILING DATE: 1999-11-17
 21 <150> PRIOR APPLICATION NUMBER: 60/189,027
 22 <151> PRIOR FILING DATE: 2000-03-14
 24 <160> NUMBER OF SEQ ID NOS: 34
 26 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

699 <210> SEQ ID NO: 16
 700 <211> LENGTH: 1134
 701 <212> TYPE: PRT
 702 <213> ORGANISM: Homo sapiens
 704 <400> SEQUENCE: 16
 705 Met Phe Cys Ser Phe Glu Thr Arg Arg His Leu Cys Met Val Met Glu
 706 1 5 10 15
 708 Tyr Val Glu Gly Gly Asp Cys Ala Thr Leu Leu Lys Asn Ile Gly Ala
 709 20 25 30
 711 Leu Pro Val Glu Met Ala Arg Met Tyr Phe Ala Glu Thr Val Leu Ala
 712 35 40 45
 714 Leu Glu Tyr Leu His Asn Tyr Gly Ile Val His Arg Asp Leu Lys Pro
 715 50 55 60
 717 Asp Asn Leu Leu Ile Thr Ser Met Gly His Ile Lys Leu Thr Asp Phe
 718 65 70 75 80
 720 Gly Leu Ser Lys Met Gly Leu Met Ser Leu Thr Thr Asn Leu Tyr Glu
 721 85 90 95
 723 Gly His Ile Glu Lys Asp Ala Arg Glu Phe Leu Asp Lys Gln Val Cys
 724 100 105 110
 726 Gly Thr Pro Glu Tyr Ile Ala Pro Glu Val Ile Leu Arg Gln Gly Tyr
 727 115 120 125
 729 Gly Lys Pro Val Asp Trp Trp Ala Met Gly Ile Ile Leu Tyr Glu Phe
 730 130 135 140
 732 Leu Val Gly Cys Val Pro Phe Phe Gly Asp Thr Pro Glu Glu Leu Phe
 733 145 150 155 160
 735 Gly Gln Val Ile Ser Asp Asp Ile Leu Trp Pro Glu Gly Asp Glu Ala
 736 165 170 175

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/836,392

DATE: 05/10/2001

TIME: 08:43:24

Input Set : A:\ES.txt

Output Set: N:\CRF3\05102001\I836392.raw

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738 Leu Pro Thr Glu Ala Gln Leu Leu Ile Ser Ser Leu Leu Gln Thr Asn
739      180      185      190
741 Pro Leu Val Arg Leu Gly Ala Gly Gly Ala Phe Glu Val Lys Gln His
742      195      200      205
744 Ser Phe Phe Arg Asp Leu Asp Trp Thr Gly Leu Leu Arg Gln Lys Ala
745      210      215      220
747 Glu Phe Ile Pro His Leu Glu Ser Glu Asp Asp Thr Ser Tyr Phe Asp
748 225      230      235      240
750 Thr Arg Ser Asp Arg Tyr His His Val Asn Ser Tyr Asp Glu Asp Asp
751      245      250      255
753 Thr Thr Glu Glu Glu Pro Val Glu Ile Arg Gln Phe Ser Ser Cys Ser
754      260      265      270
756 Pro Arg Phe Ser Lys Val Tyr Ser Ser Met Glu Gln Leu Ser Gln His
757      275      280      285
759 Glu Pro Lys Thr Pro Val Ala Ala Gly Ser Ser Lys Arg Glu Pro
760      290      295      300
762 Ser Thr Lys Gly Pro Glu Glu Lys Val Ala Gly Lys Arg Glu Gly Leu
763 305      310      315      320
765 Gly Gly Leu Thr Leu Arg Glu Lys Thr Trp Arg Gly Gly Ser Pro Glu
766      325      330      335
768 Ile Lys Arg Phe Ser Ala Ser Glu Ala Ser Phe Leu Glu Gly Glu Ala
769      340      345      350
771 Ser Pro Pro Leu Gly Ala Arg Arg Arg Phe Ser Ala Leu Leu Glu Pro
772      355      360      365
774 Ser Arg Phe Ser Ala Pro Gln Glu Asp Glu Asp Glu Ala Arg Leu Arg
775      370      375      380
777 Arg Pro Pro Arg Pro Ser Ser Asp Pro Ala Gly Ser Leu Asp Ala Arg
778 385      390      395      400
780 Ala Pro Lys Glu Glu Thr Gln Gly Glu Gly Thr Ser Ser Ala Gly Asp
781      405      410      415
783 Ser Glu Ala Thr Asp Arg Pro Arg Pro Gly Asp Leu Cys Pro Pro Ser
784      420      425      430
786 Lys Asp Gly Asp Ala Ser Gly Pro Arg Ala Thr Asn Asp Leu Val Leu
787      435      440      445
789 Arg Arg Ala Arg His Gln Gln Met Ser Gly Asp Val Ala Val Glu Lys
790      450      455      460
792 Arg Pro Ser Arg Thr Gly Gly Lys Val Ile Lys Ser Ala Ser Ala Thr
793 465      470      475      480
795 Ala Leu Ser Val Met Ile Pro Ala Val Asp Pro His Gly Ser Ser Pro
796      485      490      495
798 Leu Ala Ser Pro Met Ser Pro Arg Ser Leu Ser Ser Asn Pro Ser Ser
799      500      505      510
801 Arg Asp Ser Ser Pro Ser Arg Asp Tyr Ser Pro Ala Val Ser Gly Leu
802      515      520      525
804 Arg Ser Pro Ile Thr Ile Gln Arg Ser Gly Lys Lys Tyr Gly Phe Thr
805      530      535      540
807 Leu Arg Ala Ile Arg Val Tyr Met Gly Asp Thr Asp Val Tyr Ser Val
808 545      550      555      560
810 His His Ile Val Trp His Val Glu Glu Gly Gly Pro Ala Gln Glu Ala

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RAW SEQUENCE LISTING

DATE: 05/10/2001

PATENT APPLICATION: US/09/836,392

TIME: 08:43:24

Input Set : A:\ES.txt

Output Set: N:\CRF3\05102001\I836392.raw

811				565				570				575	
813	Gly	Leu	Cys	Ala	Gly	Asp	Leu	Ile	Thr	His	Val	Asn	Gly
814				580				585				590	
816	His	Gly	Met	Val	His	Pro	Glu	Val	Val	Glu	Leu	Ile	Leu
817			595				600					605	
819	Asn	Lys	Val	Ala	Val	Thr	Thr	Thr	Pro	Phe	Glu	Asn	Thr
820		610					615					620	
822	Ile	Gly	Pro	Ala	Arg	Arg	Ser	Ser	Tyr	Lys	Ala	Lys	Met
823	625					630					635		640
825	Asn	Lys	Arg	Pro	Ser	Ala	Lys	Glu	Gly	Gln	Glu	Ser	Lys
826					645					650			655
828	Ser	Leu	Phe	Arg	Lys	Ile	Thr	Lys	Gln	Ser	Asn	Leu	Leu
829			660					665				670	
831	Arg	Ser	Leu	Ser	Ser	Leu	Asn	Arg	Ser	Leu	Ser	Ser	Ser
832			675					680				685	
834	Pro	Gly	Ser	Pro	Thr	His	Gly	Leu	Pro	Ala	Arg	Ser	Pro
835		690					695					700	
837	Tyr	Arg	Ser	Thr	Pro	Asp	Ser	Ala	Tyr	Leu	Gly	Ala	Ser
838	705					710					715		720
840	Ser	Ser	Pro	Ala	Ser	Ser	Thr	Pro	Asn	Ser	Pro	Ala	Ser
841					725					730			735
843	His	His	Ile	Arg	Pro	Ser	Thr	Leu	His	Gly	Leu	Ser	Pro
844			740					745				750	
846	Arg	Gln	Tyr	Arg	Ser	Ala	Arg	Cys	Lys	Ser	Ala	Gly	Asn
847			755					760				765	
849	Ser	Pro	Leu	Ala	His	Thr	Pro	Ser	Pro	Thr	Gln	Ala	Ser
850		770					775					780	
852	Leu	Pro	Gly	His	Thr	Val	Gly	Ser	Ser	His	Thr	Gln	Ser
853	785					790					795		800
855	Ala	Lys	Leu	His	Ser	Ser	Pro	Pro	Val	Val	Arg	Pro	Arg
856					805						810		815
858	Ala	Glu	Pro	Pro	Arg	Ser	Pro	Leu	Leu	Lys	Arg	Val	Gln
859			820							825			830
861	Lys	Leu	Gly	Ala	Ser	Leu	Ser	Ala	Asp	Lys	Lys	Gly	Ala
862			835					840				845	
864	His	Ser	Leu	Glu	Val	Gly	His	Pro	Asp	Phe	Arg	Lys	Asp
865		850					855					860	
867	Glu	Leu	Ala	Leu	His	Ser	Leu	Ala	Glu	Ser	Asp	Gly	Glu
868	865					870					875		880
870	Val	Glu	Gly	Leu	Gly	Ala	Pro	Arg	Gln	Val	Ala	Val	Arg
871					885					890			895
873	Arg	Gln	Glu	Ser	Pro	Leu	Ser	Leu	Gly	Ala	Asp	Pro	Leu
874			900						905				910
876	Gly	Ala	Ser	Arg	Pro	Pro	Val	Ser	Ser	Lys	Glu	Lys	Glu
877			915						920				925
879	Gly	Ala	Glu	Ala	Cys	Thr	Pro	Pro	Arg	Ala	Thr	Thr	Pro
880		930					935					940	
882	Thr	Leu	Glu	Arg	Asp	Val	Gly	Cys	Thr	Arg	His	Gln	Ser
883	945				950					955			960

RAW SEQUENCE LISTING

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Input Set : A:\ES.txt

Output Set: N:\CRF3\05102001\I836392.raw

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885 Glu Asp Gly Thr Gly Gly Met Ala Arg Ala Val Ala Lys Ala Ala Leu
886                      965                      970                      975
888 Ser Pro Val Gln Glu His Glu Thr Gly Arg Arg Ser Ser Ser Gly Glu
889                      980                      985                      990
891 Ala Gly Thr Pro Leu Val Pro Ile Val Val Glu Pro Ala Arg Pro Gly
892                      995                      1000                      1005
894 Ala Lys Ala Val Val Pro Gln Pro Leu Gly Ala Asp Ser Lys Gly Leu
895          1010          1015          1020
897 Gln Glu Pro Ala Pro Leu Ala Pro Ser Val Pro Glu Ala Pro Arg Gly
E--> 898 1025      1030 1035      1035 1035      1040 1040
900 Arg Glu Arg Trp Val Leu Glu Val Val Glu Glu Arg Thr Thr Leu Ser
E--> 901          1045          1050          1055
903 Gly Pro Arg Ser Lys Pro Ala Ser Pro Lys Leu Ser Pro Glu Pro Gln
E--> 904          1060          1065          1070
906 Thr Pro Ser Leu Ala Pro Ala Lys Cys Ser Ala Pro Ser Ser Ala Val
E--> 907          1075          1080          1085
909 Thr Pro Val Pro Pro Ala Ser Leu Leu Gly Ser Gly Thr Lys Pro Gln
E--> 910          1090          1095          1100
912 Val Gly Leu Thr Ser Arg Cys Pro Ala Glu Ala Val Pro Pro Ala Gly
E--> 913 1105      1110 1115      1115 1115      1120 1120
915 Leu Thr Lys Lys Gly Val Ser Ser Pro Ala Pro Pro Gly Pro
E--> 916          1125          1130

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/836,392

DATE: 05/10/2001

TIME: 08:43:25

Input Set : A:\ES.txt

Output Set: N:\CRF3\05102001\I836392.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:898 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16

M:332 Repeated in SeqNo=16

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/836,392

CRF Processing Date: 5/10/2001
Edited by: A
Verified by: A (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was wrapped down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: corrected amino acid nos. - Seq 16